

 (TM)

Release 2.1d John F. Collins, Biocomputing Research Unit.
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MSPRCH_PP protein - protein database search, using Smith-Waterman algorithm
 on: Wed Aug 20 09:52:47 1997; MasPar time 19.04 Seconds
 576.613 Million cell updates/sec
 Tabular output not generated.

Title: >US-08-469-637A-2
 Description: (22-401) from US08469637A.pep (2 of 2)
 Perfect Score: 2861
 Sequence: 1 ETPPPKLYHDETSQQLC.....OKLFLEMIGNOVSKISCL 380

Scoring table:
 PAM 150
 Gap 11

Searched: 91006 segs, 28888923 residues

Post-processing: Minimum Match 0%
 Listing first 45 summaries

Database:

pir51
 1:ann1 2:ann2 3:ann3 4:ann4 5:unann1 6:unann2 7:unann3
 8:unann4 9:unann5 10:unann6 11:unann7 12:unann8
 13:unann9 14:unann10 15:unann16:unann17
 Statistics: Mean 46.240; Variance 103.115; scale 0.448

Pred. No. is the number of results predicted by chance to have a
 score greater than or equal to the score of the result being printed,
 and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description	Pred. No.
1	398	13.9	451	6	A35356	tumor necrosis facto	7.85e-47
2	377	13.2	459	14	A48854	gene mutine tumor n	3.33e-43
3	375	13.1	474	6	B38634	tumor necrosis facto	7.36e-43
4	303	10.6	277	13	A60771	B-cell activation pr	1.19e-30
5	294	10.3	289	14	A46515	B-cell-associated su	3.73e-29
6	264	10.3	305	14	A46476	CD40 - mouse	4.86e-25
7	269	9.4	326	2	GOVZML	T2 protein - myxoma	1.41e-23
8	260	9.1	325	6	B43692	T2 protein - rabbit	1.41e-23
9	260	9.1	435	13	I54182	tumor necrosis facto	8.98e-19
10	230	8.0	138	16	S32385	gene G4R protein - v	2.33e-17
11	230	8.0	349	8	D36858	G4R protein - variol	2.33e-17
12	221	7.7	454	14	I57826	tumor necrosis facto	2.33e-17
13	221	7.7	454	2	GOMST1	tumor necrosis facto	2.33e-17
14	220	7.7	461	2	GOMST1	tumor necrosis facto	2.33e-17
15	215	7.5	416	6	JN0006	nerve growth factor	2.01e-16
16	213	7.4	427	2	GQHDN	nerve growth factor	4.11e-16
17	207	7.2	425	6	A26431	nerve growth factor	3.47e-15
18	186	6.5	461	14	JC4302	tumor necrosis facto	5.33e-12
19	178	6.2	595	13	A42086	CD30 antigen precurs	8.20e-11
20	172	6.0	455	2	GQHDN1	tumor necrosis facto	6.21e-10
21	162	5.7	260	2	A46517	CD27 antigen precurs	1.72e-08

22	159	5.6	256	14	B32393	T-cell antigen 4-1BB	4.60e-08
23	154	5.4	324	14	JC2395	Fas antigen - rat	2.33e-07
24	146	5.1	271	14	S12783	Ox40 antigen precurs	3.01e-06
25	144	5.0	272	14	I48700	gene ox40 protein -	5.65e-06
26	141	4.9	255	13	JT0752	lymphocyte activatio	1.44e-05
27	140	4.9	335	13	A38142	Apo-1 antigen, Fas a	1.97e-05
28	137	4.8	327	12	A46484	apoptosis-mediating	4.98e-05
29	134	4.7	250	2	A49053	CD27 antigen precurs	1.25e-04
30	134	4.7	314	13	I37383	Fas soluble protein	1.25e-04
31	134	4.7	335	13	A40036	apoptosis-mediating	2.48e-03
32	124	4.3	103	8	J01791	Salp16R protein - va	2.48e-03
33	124	4.3	103	8	A42523	A53R protein - vacci	2.48e-03
34	115	4.0	360	11	S48365	hypothetical protein	3.31e-02
35	110	3.8	335	11	B34576	D2 protein precursor	1.33e-01
36	105	3.7	2813	3	VWHD	von Willebrand facto	5.14e-01
37	103	3.6	344	11	S61037	hypothetical protein	6.71e-01
38	104	3.6	614	12	S43427	intermediate filamen	1.14e+00
39	102	3.6	3084	3	MMMSA	lamnin chain A prec	1.91e+00
40	100	3.5	132	13	S57866	Fas/Apo-1/CD95 prote	1.91e+00
41	100	3.5	149	13	S58662	Fas-Delta-(4,7) prot	1.91e+00
42	101	3.5	713	11	JC6012	glutamine-fructose-	1.47e+00
43	101	3.5	1122	12	S64443	probable membrane pr	1.91e+00
44	100	3.5	2677	13	A38194	desmoplakin I - huma	3.19e+00
45	98	3.4	1947	3	S05697	myosin heavy chain C	3.19e+00

ALIGNMENTS

RESULT	1	ALIGNMENTS
ENTRY	A35356	#type complete
TITLE	tumor necrosis factor receptor type 2 precursor - human	
ALTERNATE NAMES	75K tumor necrosis factor receptor	
ORGANISM	#formal_name Homo sapiens #common_name man	
DATE	14-Sep-1990 #sequence_revision 14-Sep-1990 #text_change 22-Nov-1996	
ACCESSION	A35356; A36475; A48416; A36007; A25666; B35010; I38094	
REFERENCE	A35356	
#authors	Smith, C.A.; Davis, T.; Anderson, D.; Solam, L.; Beckmann, M.P.; Jerry, R.; Dover, S.K.; Cosman, D.; Goodwin, R.G.	
#journal	Science (1990) 248:1019-1023	
#title	A receptor for tumor necrosis factor defines an unusual family of cellular and viral proteins.	
#cross-references	NCBI:90260639	
#accession	A35356	
#status	preliminary	
#molecule_type	mRNA	
#residues	1-461 ##label SMI	
REFERENCE	A36475	
#authors	Kohn, T.; Brewer, M.T.; Baker, S.L.; Schwartz, P.E.; King, M.W.; Hale, K.K.; Squires, C.H.; Thompson, R.C.; Vannice, J.L.	
#journal	Proc. Natl. Acad. Sci. U.S.A. (1990) 87:8331-8335	
#title	A second tumor necrosis factor receptor gene product can shed a naturally occurring tumor necrosis factor inhibitor.	
#cross-references	NCBI:91045991	
#accession	A36475	
#status	preliminary	
#molecule_type	mRNA	
#residues	1-195, 'R', 197-461 ##label KOH	
REFERENCE	A48416	
#authors	Dembic, Z.; Loetscher, H.; Gubler, U.; Pan, Y.C.; Lahm, H.W.; Gentz, R.; Brockhaus, M.; Lesslauer, W.	
#journal	Cytokine (1990) 2:231-237	
#title	Two human TNF receptors have similar extracellular, but distinct intracellular, domain sequences.	
#cross-references	NCBI:91370690	
#accession	A48416	
#status	preliminary	
#molecule_type	mRNA; protein	
#residues	23-461 ##label DEM	
#cross-references	NCBI:63366; NCBI:63371	

```

#note      sequence extracted from NCBI backbone
REFERENCE  A36007
#authors   Heller, R.A.; Song, K.; Onasch, M.A.; Fischer, W.H.; Chang,
#journal    D.; Ringold, G.M.
#title      Proc. Natl. Acad. Sci. U.S.A. (1990) 87:6151-6155
#cross-references MIM:60349572
#accession  A36007
#status     preliminary
#molecule-type mRNA
#residues   116-140, 'P', 142-195, 'R', 197-362, 'T', 364-461 ##label HEL
#cross-references GB:M35857

REFERENCE  A23666
#authors   Loetscher, H.; Schlaeger, E.J.; Lahn, H.W.; Pan, Y.C.E.;
#journal    J. Biol. Chem. (1990) 265:20131-20138
#title      Purification and partial amino acid sequence analysis of two
#cross-references MIM:91056048
#accession  A23666
#status     preliminary
#molecule-type protein
#residues   23-40; 65-69; 136-141; 300-306 ##label LOE

REFERENCE  A35010
#authors   Engelmann, H.; Novick, D.; Wallach, D.
#journal    J. Biol. Chem. (1990) 265:1531-1536
#title      Two tumor necrosis factor-binding proteins purified from
#cross-references MIM:90110215
#accession  B35010
#status     preliminary
#molecule-type protein
#residues   27-31 ##label ENG

REFERENCE  I38094
#authors   Kuhnert, P.; Kemper, O.; Wallach, D.
#journal    Gene (1994) 150:381-386
#title      Cloning, sequencing and partial functional characterization
#cross-references MIM:95121934
#accession  I38094
#status     preliminary; translated from GB/EMBL/DBJ
#molecule-type DNA
#residues   1-37 ##label RES
#cross-references EMBL:X80021; NID:g666044; CDS_PID:g825701
GENETICS
#note      GDB:TNER2
#map-position 1p36.2-1p36.2
#introns    26/3
#note       the list of introns is incomplete
CLASSIFICATION #superfamily tumor necrosis factor receptor type 2; NGF
#product repeat homology
#duplication: receptor; transmembrane protein
KEYWORDS
FEATURE
1-22      #domain signal sequence #status predicted #label SIG\
23-416    #product tumor necrosis factor receptor type 2 #status
#experimental #label MAR\
40-76     #domain NGF receptor repeat homology #label NG1\
78-119    #domain NGF receptor repeat homology #label NG2\
120-162   #domain NGF receptor repeat homology #label NG3\
164-201   #domain NGF receptor repeat homology #label NG4\
262-279   #domain transmembrane #status predicted #label TM\
280-461   #domain intracellular #status predicted #label INT\
171,193   #binding-site carbohydrate (asn) (covalent) #status
#predicted

SUMMARY    #length 461 #molecular-weight 48291 #checksum 5724
Query Match      13.9%; Score 398; DB 6; Length 461;
Best Local Similarity 43.8%; Pred. No. 7.85e-47;
Matches 63; Conservative 19; Mismatches 55; Indels 7; Gaps 6;

```

```

Db 45 yydqtq-gmcskspgqghavfcttsdtycdscdstyqlwnwpeclsgscrsd 103
:::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Qy 31 YDEBTSHQLDCKPCPPGYLKHQCTAKWTVACAPCPHYTDSNHTSDECLYCPVKEL 90
Db 104 qveqacregqrncrtcrpwyalsqegrcrlpkrctprgfyvrapptletsdvckp 163
|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Qy 91 QYVQOECNRTNRYCECKEGRY--LEI-ERC-L-KH-RSCPGRGVQAGTPERNYCKR 144
Db 164 capgtfntstsdicrphqicnv 187
:::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Qy 145 CPDGFSSNETSSKAPCRKHTNCV 168

RESULT      2
ENTRY       I48854 #type fragment
TITLE       gene murine tumour necrosis factor receptor 2 protein - mouse
            (fragment)
ORGANISM    #formal_name Mus musculus #common_name house mouse
            02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change
            02-Jul-1996
ACCESSIONS  I48854
REFERENCE   I48854
#authors    Powell, E.E.; Wicker, L.S.; Peterson, L.B.; Todd, J.A.
#journal    Mamm. Genome (1994) 5:726-727
#title      Allelic variation of the type 2 tumor necrosis factor
#cross-references MIM:95178848
#accession  I48854
#status     preliminary; translated from GB/EMBL/DBJ
#molecule-type mRNA
#residues   1-459 ##label RES
#cross-references EMBL:X76401; NID:g433830; CDS_PID:g433831
GENETICS
#note      gene name murine tumour necrosis factor receptor 2
SUMMARY     #length 459 #checksum 3156

Query Match      13.2%; Score 377; DB 14; Length 459;
Best Local Similarity 41.5%; Pred. No. 3.35e-43;
Matches 66; Conservative 21; Mismatches 61; Indels 11; Gaps 7;
Db 37 gmcakcpbggyvkhfnktsdtycdscdstyqlwnwpeclsgscrsd 96
:::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Qy 38 QULDCRCPGGYLYLKHQCTAKWTVACAPCPHYTDSNHTSDECLYCPVKELDYQEC 97
Db 97 tkqgnrycaceagrycalktshsgscrgcmrslskcpgfygyassrapnynlckacpqlf 156
:::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Qy 98 NRTNRYCECKEGRY--LEI-ERC-L-KH-RSCPGRGVQAGTPERNYCKRCPDGF 150
Db 157 sdtstscvcrphicst--laip--gnastdaycapcs 191
:::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Qy 151 SNETSSKAPCRKHTNCVFGLLYQKGNATHDNICGNS 189

RESULT      3
ENTRY       B38634 #type complete
TITLE       tumor necrosis factor receptor type 2 precursor - mouse
ORGANISM    #formal_name Mus musculus #common_name house mouse
            30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change
            18-Oct-1996
ACCESSIONS  B38634; A40254; S54816
REFERENCE   A38634
#authors    Lewis, M.; Tartaglia, L.A.; Lee, A.; Bennett, G.L.; Rice,
            G.C.; Wong, G.H.W.; Chen, E.Y.; Goeddel, D.V.
#journal    Proc. Natl. Acad. Sci. U.S.A. (1991) 88:2830-2834
#title      Cloning and expression of cDNAs for two distinct murine tumor
            necrosis factor receptors demonstrate one receptor is
            species specific.
#cross-references MIM:91187885
#accession  B38634
#molecule-type mRNA
#residues   1-474 ##label LEW
#cross-references GB:M60465

```

```
#REFERENCE A40254 Goodwin, R.G.; Anderson, D.; Jerzy, R.; Davis, T.; Brennan,  
#authors C.T.; Copeland, N.G.; Jenkins, N.A.; Smith, C.A.  
#journal Mol. Cell. Biol. (1991) 11:3020-3026  
#title Molecular cloning and expression of the type 1 and type 2  
murine receptors for tumor necrosis factor.#cross-references MIMD:91246188  
#accession A40254
```

```
#molecule_type mRNA  
##residues 1-474 ##label GOO  
#cross-references GH:M60469  
REFERENCE S54816  
#authors Kisonerghis, M.; Fellowes, R.; Feldmann, M.; Chernajovsky,
```

```
#submission submitted to the EMBL Data Library, May 1995  
#description Characterization of the promoter region of the murine p75-TNFR  
receptor.  
#accession S54816
```

```
##status preliminary  
##molecule_type DNA  
##residues 1-22 ##label KIS  
#cross-references EMBL:X87128  
CLASSIFICATION #superfamily tumor necrosis factor receptor type 2; NGF  
receptor repeat homology
```

```
FEATURE  
1-22 domain signal sequence #status predicted #label SIG\  
23-474 #product tumor necrosis factor receptor type 2 #status  
predicted #label MAT\  
40-77 #domain NGF receptor repeat homology #label NC1\  
79-120 #domain NGF receptor repeat homology #label NC2\  
166-203 #domain NGF receptor repeat homology #label NC4  
SUMMARY #length 474 #molecular-weight 50319 #checksum 7767
```

```
Query Match 13.1%; Score 375; DB 6; Length 474;  
Best Local Similarity 41.5%; Pred. No. 7,36e+43;  
Matches 66; Conservative 21; Mismatches 61; Indels 11; Gaps 7;
```

```
Db 52 qmcacakppggyvvhfnktsdtycadceasmlyqvwngfrtclscssactdqyelrac 111  
| : |||| | : : |||| | : : |||| | : : ||||  
Qy 38 QLLCDKCPGYYLTQHGTAKKTVCAPCRPHYTYDSMHTSDCLYCSPVKELGYVKEC 97  
Db 112 tkgnrycaeaagaycalxkhsgscrgcmllskrcpgfygastrpnugnvlckaaaptf 171  
| : |||| | |||| | |||| | |||| | |||| | ||||  
Qy 98 NRTHNPVECEEGKY--LEIEF--CLKH-R-S-CPGFGSVAGPPEPTYCKRCRDPDFE 150  
Db 172 sdctsdvcvrphicsl--laip--gsastdcascpes 206  
| : |||| | |||| | |||| | |||| | |||| | ||||  
Qy 151 SNETSSKAFCRKHNCSVFGLLTQRGNATHDYICGSNS 189
```

```
RESULT 4  
ENTRY TITLE B60771 #type complete  
ALTERNATE_NAMES B-cell activation protein CD40 precursor - human  
ORGANISM "B-cell surface antigen Bps0"  
DATE #format_name Homo sapiens #common_name man  
03-Jun-1993 #sequence_revision 03-Feb-1994 #text_change  
06-Sep-1996
```

```
ACCESSIONS S04460  
REFERENCE S04460  
#authors Stamenkovic, I.; Clark, E.A.; Seed, B.  
#journal EMBO J. (1989) 8:1403-1410  
#title A B-lymphocyte activation molecule related to the nerve growth factor receptor and induced by cytokines in carcinomas.  
#cross-references MIMD:8935608  
#accession S04460
```

```
#molecule_type mRNA  
##residues 1-277 ##label STA  
#cross-references EMBL:X60592  
REFERENCE A60771  
#authors Braesch-Andersen, S.; Paulie, S.; Koho, H.; Nike, H.;  
Aspenstroem, P.; Perlmann, P.  
J. Immunol. (1989) 142:567-567
```

```
#journal #journal
```

```

#title      Biochemical characteristics and partial amino acid sequence
            of the receptor-like human B cell and carcinoma antigen
            CDw40.
#accession  A60771
#molecule_type protein
#residues   21-50 ##label BRA
#experimental_source Burkitt lymphoma cell line Raj1
GENETICS
#gene       GDB:CD40
#cross-references GDB:215268
#map_position 20q12-20q13.2
KEYWORDS    B-cell; glycoprotein; phosphoprotein; transmembrane protein
FEATURE
1-20
21-277
21-193      #domain signal sequence #status predicted #label SIG\
194-215     #product B-cell activation protein CD40 #status
216-277     experimental #label MAT
153,180     #domain extracellular #status predicted #label EXT\
            #domain transmembrane #status predicted #label TM\
            #domain intracellular #status predicted #label CYT\
            #binding_site carbohydrate (Asn) (covalent) #status
            predicted
SUMMARY
#length 277 #molecular-weight 30619 #checksum 6261

Query Match      10.6%; Score 303; DB 13; Length 277;
Best Local Similarity 36.8%; Pred. No. 1,19e-30;
Matches 56; Conservative 21; Mismatches 67; Indels 8; Gaps 7;

Db 38 cdcpqgklysdctefetecpccgeseftdwzrethcqhkycdpn-1gtr-vqgkx 95
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Oy 41 CDKCPRGYILKHQHTAKMYACAPCPHYITDMSHTDEC-L--YCSPVKREQLQYKQEC 97
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 96 tsetdlctceegwhctseacescvllhrscspgfygvkqiatygsdlcepcpvyffsnvs 155
    :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Oy 98 NRTNHRVCECKEGRY-L-EI-EFELKRRSCPPGQGVQATPERNTYCKRCPDGFPSNET 154
    :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 156 safeckhpwtscetkdlvygqagcfnkcdvvcg 187
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Oy 155 SSKAPCRKRTNCYVFGLLTQKGNATHDNICS 186
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT      5
ENTRY       A46515 #type complete
TITLE       B cell-associated surface molecule CD40 - mouse
ORGANISM    #format_name Mus musculus #common_name house mouse
DATE        18-Jun-1993 #sequence_revision 18-Nov-1994 #text_change
            03-Mar-1995
ACCESSIONS  A46515
REFERENCE   Grimaldi, J.C.; Torres, R.; Kozak, C.A.; Chang, R.; Clark,
            E.A.; Howard, M.; Cockayne, D.A.
            J. Immunol. (1992) 149:3921-3926
            Genomic structure and chromosomal mapping of the murine CD40
            gene.
#journal     #title
#molecule_type protein
#residues    1-289 ##label GRI
#cross-references NCBI:P120357
#experimental_source BABD/C, liver
#note        sequence extracted from NCBI backbone
SUMMARY      #length 289 #molecular-weight 32111 #checksum 579

Query Match      10.3%; Score 294; DB 14; Length 289;
Best Local Similarity 38.8%; Pred. No. 3.73e-29;
Matches 59; Conservative 20; Mismatches 65; Indels 8; Gaps 6;

Db 38 cdcpqgsrlshstalektcqhpcdsgefsagqmwreirchqhncpepn-vglr-vkxeg 95
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Oy 41 CDKCPRGYILKHQHTAKMYACAPCPHYITDMSHTDEC-LR--CSPVKREQLQYKQEC 97
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 96 taesdlyrcckeghntskdcaacaghtpccpysfygmemaettdtchpcpvyffsnvs 155
    :||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

```

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QY      98  NRHNRYCECKEGRY-L--EIFELKHSRCPGPGVYQAGTPEBNTVCKRCPDGFSENET 154
Db      156  s1fekeypwtscedknlevlqktsqtnvicg 187
QY      155  SSRAPCRKHTNCVFGLLTQKGNATHDNICS 186

RESULT      6
ENTRY      A46476 #type complete
TITLE      CD40 mouse
ORGANISM   Mus musculus #common_name house mouse
DATE       18-Jun-1993 #sequence_revision 18-Nov-1994 #text_change
18-Nov-1994
ACCESSIONS A46476
REFERENCE   A46476
#authors   Torres, R.M.; Clark, E.A.
#journal   J. Immunol. (1992) 148:620-626
#title     Differential increase of an alternatively polyadenylated mRNA
           species of murine CD40 upon B lymphocyte activation.
#cross-references MIMD:92105763
#accession   A46476
#status     preliminary
#molecule_type mRNA
#residues   1-305 #label TOR
#cross-references NCBIN:75206; NCBI:75207
#note      sequence extracted from NCBI backbone
SUMMARY    #length 305 #molecular-weight 33617 #checksum 5203

Query Match
Best Local Similarity 38.8%; Pred. No. 3,73e-29;
Matches 59; Conservative 20; Mismatches 65; Indels 8; Gaps 6;

Db      38  cd1qgppsr1stlctalekqgcbcdsgsfagvnr1rqbhncpn-qglr-vkqeg 95
QY      41  CDCPPEPTYLKQHTAKWTKVCAPCPDHYTDSWHTSDEC-LT--CSPVCKEQLQYVAQEC 97
Db      96  taesdvtcckegqhtcskceacaghtpc1pgfyemematetdtvchpovgffsngs 155
QY      98  NRHNRYCECKEGRY-L--EIFELKHSRCPGPGVYQAGTPEBNTVCKRCPDGFSENET 154
Db      156  s1fekeypwtscedknlevlqktsqtnvicg 187
QY      155  SSRAPCRKHTNCVFGLLTQKGNATHDNICS 186

RESULT      7
ENTRY      GQVZML #type complete
TITLE      T2 protein - myxoma virus (strain Lausanne)
ORGANISM   myxoma virus
#formal_name myxoma virus
#cross-references MIMD:91335768
#accession   A40566
#molecule_type DNA
#residues   1-326 #label UPT
#cross-references GB:M37976
CLASSIFICATION #superfamily myxoma virus T2 protein; NGF receptor repeat
               homology
KEYWORDS    glycoprotein
FEATURE     64-105 #domain NGF receptor repeat homology #label NG2\
106-147 #domain NGF receptor repeat homology #label NG3\
66,181,205,238 #binding-site carboxylate (Asn) (covalent) #status
               predicted
SUMMARY    #length 326 #molecular-weight 35208 #checksum 9255

```

```

Query Match
Best Local Similarity 33.8%; Pred. No. 4,86e-25;
Matches 47; Conservative 25; Mismatches 58; Indels 9; Gaps 8;

Db      40  ctscpgsyasrlcpgsdvtcspcknetftastnnapacvscrgctghlssgscdxt 99
QY      41  CDCPPEPTYLKQHTAKWTKVCAPCPDHYTDSWHTSDECILCSPVCKEQLQYVAQEC 100
Db      100  rdvdcsgsnnyllkqgqgcr1capktpcapgyys-ghttgdv1lckkcpkytsdsv 158
QY      101  HNRVCECKEGRY--LE-IEFC-L-KHRS--CPDGGVYQAGTPEBNTVCKRCPDGFSENET 154
Db      159  sstctcsfnysvfnl 177
QY      155  SSRAPCRKHTNC-SV-FGL 171

RESULT      8
ENTRY      B43692 #type complete
TITLE      T2 protein - rabbit fibroma virus
ORGANISM   rabbit fibroma virus, Shope fibroma virus
DATE       30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change
26-Apr-1996
ACCESSIONS B43692
REFERENCE   B43692
#authors   Upton, C.; Delange, A.M.; McFadden, G.
#journal   Virology (1987) 160:20-30
#title     Tumorigenic poxviruses: genomic organization and DNA sequence
           of the telomeric region of the Shope fibroma virus genome.
#accession   B43692
#status     preliminary
#molecule_type DNA
#residues   1-325 #label UPT
#cross-references GB:M17433
CLASSIFICATION #superfamily NGF receptor repeat homology
FEATURE     64-105 #domain NGF receptor repeat homology #label NG2\
106-147 #domain NGF receptor repeat homology #label NG3
SUMMARY    #length 325 #molecular-weight 35132 #checksum 4629

Query Match
Best Local Similarity 30.5%; Pred. No. 1,41e-23;
Matches 51; Conservative 31; Mismatches 77; Indels 8; Gaps 5;

Db      40  caschgfyasrlcpgsnltvcspscdgftftastnnapacvscrgctghlssgpcdxt 99
QY      41  CDCPPEPTYLKQHTAKWTKVCAPCPDHYTDSWHTSDECILCSPVCKEQLQYVAQEC 100
Db      100  hdrvcnscgnyllkqgqgcr1capktpcapgyys-ghttagdtlckkcpkphysds1 158
QY      101  HNRVCECKEGRY--L--ELE--FCLKHSRCPGPGVYQAGTPEBNTVCKRCPDGFSENET 154
Db      159  sptercgtsfnysvgnlypnvnetcctt-aghnevltkfevtl 204
QY      155  SSRAPCRKHTNCVFGLLTQKGNATHDNICGNSRSTQKCGIDVTL 201

RESULT      9
ENTRY      I54182 #type complete
TITLE      tumor necrosis factor receptor 2-related protein - human
ORGANISM   Homo sapiens #common_name man
DATE       24-May-1996 #sequence_revision 24-May-1996 #text_change
24-May-1996
ACCESSIONS I54182
REFERENCE   I54182
#authors   Baens, M.; Chaffanet, M.; Cassiman, J.J.; Van den Berghe, H.;
           Marynen, P.
#journal   Genomics (1993) 16:214-218
#title     Construction and evaluation of a hncDNA library of human 12p
           transcribed sequences derived from a somatic cell hybrid.
#cross-references MIMD:93252381
#accession   I54182
#status     preliminary; translated from GB/EMBL/DBJ

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SUMMARY          Predicted
                  #length 416 #molecular-weight 44654 #checksum 3542
Query Match      7.5%; Score 215; DB 6; Length 416;
Best Local Similarity 30.4%; Pred. No. 2.01e-16;
Matches 45; Conservative 27; Mismatches 70; Indels 6; Gaps 6
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	Db	36	Ckacnlsggvvqprcgvn-qtycepcldsvtysdtsatetepckptg-cvgihmsapcve	93
Oy	41	CDKCPRGTYLKQHCSTAKWKTVCAPCPDHY-YTDSMHTSDECLYCSPVCKELQVVKOCNR	99	:
Db	94	sddavrcaygyfgdelsgsckeclsicevqfjlmfpccrdsqdtvcecepgetfsdeanf	153	:
Oy	100	TNNRYCECKEGRYL-EIE-FCLKHRSCTPRGSGVVQAQTPRANTVCKRCPDGFSSNETSSK	157	:
Db	154	drcilprctliceenevmvke-ctatsdaec	180	:
Oy	158	APCRKHTNCSVFGLLTPQGNATHDNIC	185	:

Search completed: Wed Aug 20 09:53:47 1997
Job time : 60 secs.

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